Dr. Terry A. Todd

Significant research in chemical separation technologies related to nuclear waste treatment, spent nuclear fuel recycle, and treatment of hazardous wastes.

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Education
Terry Todd received his B.S. in chemical engineering in 1980 from Montana State University, his M.S. in chemical engineering in 1983 from Montana State University, and his Ph.D. in radiochemical engineering in 2005 from Khlopin Radium Institute, St. Petersburg, Russia.

Experience and Achievements
He is the manager of the Aqueous Separations and Radiochemistry Department at the Idaho National Laboratory. Dr. Todd has been employed at the INL since 1983; he was previously a Laboratory Fellow for the INEEL. Prior to his M.S. graduate work, Dr. Todd was employed as an engineer at Battelle Northwest Laboratories, Richland, WA.

Dr. Todd's research interests include advanced separation methods for treatment of spent nuclear fuel, production/recovery of medical isotopes for cancer therapy, and development of effective sorbents for the removal of arsenic from drinking water. Dr. Todd has been the principal investigator for numerous external research projects, including a NATO grant, and a collaborator on numerous international research projects. Dr. Todd has authored multiple peer-reviewed publications, patents and national and international presentations in these areas. Dr. Todd serves on the Editorial Board for the journal Solvent Extraction and Ion Exchange, is on the Advisory Board of the Actinide Separations Conference, and is the programming chair for the ANS Fuel Cycle and Waste Management Division.

Awards
Nano-Composite Arsenic Sorbent N-CAS - 2006 (R&D 100 Awards; Nano50 Award; Federal Laboratory Consortium Awad; Stoel-Rives Idaho Innovation Award)

INL'S LIFETIME ACHIEVEMENT AWARD FOR INVENTORSHIP

Patents

- U.S Patent 6,075,176- Iron-Phosphate Ceramics for Solidification of Mixed Low-Level Waste
- U.S. Patent 6,258,333 - Method for the Simultaneous Recovery of Radionuclides from Liquid Radioactive Wastes Using a Solvent
- U.S. Patent 6,270,737 - Extraction Processes and Solvents for Recovery of Cesium, Strontium, Rare Earth Elements, Technetium and Actinides from Liquid Radioactive Waste
- U.S. Patent 6,468,445 - Solvent for the Simultaneous Recovery of Radionuclides from Liquid Radioactive Wastes
- U.S. Patent 6,514,566 - Ion Processing Element with Composite Media